To all whom it may concern:

Be it known that I, CURT KLETTE, engineer, a subject of the German Emperor, and resident of 46 Marschallstrasse, Dusseldorf, Germany, have invented certain new and useful Improvements in Guns with Long Recoil; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

With guns adapted to be taken to pieces for the purpose of transporting it is difficult to obtain a long recoil of the barrel because the single parts must be limited in length and weight.

My invention has for its object to avoid these difficulties in order to obtain a long recoil of the barrel without inconveniently increasing the length and the weight of the single loads into which the gun is to be separated.

According to my invention a plurality of slides is inserted between the barrel and the cradle of the gun and the return springs are telescoped. The brake cylinder together with an upper slide carrying the barrel and a lower slide jointed to a tube inserted between the telescoped springs are positively connected with each other. By this combination I obtain the advantage that the recoiling barrel is supported on a larger surface and in consequence has a greater stability.

In the accompanying drawing I have shown by way of example an embodiment of my invention:

Figure 1 is a side elevation partly in section of the upper part of a gun showing the parts in the position of rest. Fig. 2 is a cross section. Fig. 3 is a side elevation similar to Fig. 1 but showing the parts at the end of the recoil of the barrel.

The barrel a is formed as a separate part and the breech b forms together with the slide c another part of the gun. The barrel a and the breech b are connected together in a well known manner by means of a bayonet joint. The slide c moves on a second slide d guided on the cradle e. The latter is provided with an inner ring or partition f forming the abutment for one end of a spring g the other end of which rests on an abutment h secured to a tube i. The spring g surrounds this tube i which is connected with the slide d and also surrounds an inner spring k the latter resting with one end on an abutment l connected to the slide d and with the other end on an abutment m fixed to the brake cylinder n. The brake cylinder n is connected in a well known manner with the breech of the gun while the brake piston is fastened to the cradle as usually. If the barrel recoils the parts assume the position shown by Fig. 3, and it will be seen that by the described combination of several slides and telescoped springs the recoil is elongated over the length of the cradle without inconveniently enlarging the length and the weight of the single loads into which the gun can be divided for the purpose of transporting.

I claim herein as my invention:

1. In a gun having a cradle and a barrel recoiling thereon, the combination with the cradle, of a plurality of slides guided one on the other and inserted between the barrel and the cradle, a plurality of springs, one of the slides being connected with the barrel, a tube with which another of said slides is connected, and a brake connected with one of the slides.

2. In a gun having a cradle and a barrel recoiling thereon the combination with the cradle of a plurality of slides guided one on the other and inserted between the barrel and the cradle, a plurality of telescoped springs, one of the slides being connected with the barrel and another one being connected with a tube inserted between the telescoped springs, and a brake cylinder positively connected with one of the slides.

3. In a gun having a cradle and a barrel recoiling thereon the combination with the cradle of a plurality of slides guided one on the other and inserted between the barrel and the cradle, a plurality of telescoped springs, one of the slides being connected with the barrel and another one being connected with a tube inserted between the telescoped springs.
scoped springs, a brake cylinder positively connected with one of the slides, abutments on the said tube for one end of each spring and abutments on the brake cylinder and on the cradle for the other ends of the springs respectively.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

CURT KLETTE.

Witnesses:

HELEN NUFER,

ALBERT NUFER.